

Modifying and Deleting Groups

Spoken Tutorial Project

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

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Learning Objectives

We will learn about



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We will learn about

- `groupmod` **command**



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We will learn about

- `groupmod` **command**
- `groupdel` **command**



System Requirements



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- **Ubuntu Linux 16.04 OS**



Pre-requisites

- **Please go through earlier Linux System Administration tutorials on <http://spoken-tutorial.org/>**



Pre-requisites

- **Please go through earlier Linux System Administration tutorials on <http://spoken-tutorial.org/>**
- **You must have root access to your computer**



groupmod command

- Used to modify the definition of the group specified in the command



groupmod command

- Used to modify the definition of the group specified in the command
- **Syntax:**
`groupmod [options] groupname`



groupmod command

- Used to modify the definition of the group specified in the command
- **Syntax:**
groupmod [options] groupname
- Options **field is not mandatory**



groupmod command

Used to modify:

- **The group name**



groupmod command

Used to modify:

- The group name
- **GID**



groupmod command

Used to modify:

- The group name
- GID
- **GID to a non-unique number**



Modify GID

- You can also change the GID of a group to a new unique non-negative number



Modify GID

- You can also change the GID of a group to a new unique non-negative number
- Suppose, you are planning to use number 1100 as new GID value



Modify GID

- You can also change the GID of a group to a new unique non-negative number
- Suppose, you are planning to use number 1100 as new GID value
- First ensure, that the number 1100 is not present as GID in any other group



Files owned by modified group

- **The group ID has changed**



Files owned by modified group

- **The group ID has changed**
- **But the files belonging to this group will retain the old group ID value**



Files owned by modified group

- **The group ID has changed**
- **But the files belonging to this group will retain the old group ID value**
- **We must change their group ID manually**



Modify GID

- To change the group ID to a non-unique value



Modify GID

- To change the group ID to a non-unique value
- You will need `-o` option along with `-g` option



groupdel command

- **Used by root or the superuser to remove a group**



groupdel command

- Used by root or the superuser to remove a group
- **Syntax is:** `groupdel groupname`



groupdel command

The important point you have to keep in mind is:



groupdel command

The important point you have to keep in mind is:

- You are not permitted to remove the primary group of any existing user



groupdel command

The important point you have to keep in mind is:

- You must remove the user first



groupdel command

The important point you have to keep in mind is:

- You must remove the user first
- Then you can remove that user's primary group



Files owned by deleted group

- `groupdel` **will not automatically check for files owned by the deleted group**



Files owned by deleted group

- `groupdel` **will not automatically check for files owned by the deleted group**
- **You should manually search all file systems for such files**



Files owned by deleted group

- `groupdel` will not automatically check for files owned by the deleted group
- You should manually search all file systems for such files
- Use `find` command for this search



Files owned by deleted group

- You should ensure that no files remain owned by this deleted group



Files owned by deleted group

- You should ensure that no files remain owned by this deleted group
- You can either delete those files or change group ownership using `chgrp` command



Summary

We learnt about

- **groupmod command to modify:**
 - The group name
 - GID
 - GID to a non-unique number
- **groupdel command to delete group**



Assignment

- **Create two groups:**
 - civil **with** GID: 1201
 - mechanical **with** GID 1202



Assignment

- **Add a user `suman` with primary group `civil`**
- **Let `suman` create a document `test.txt` and type any text of your choice**



Assignment

- **Modify the GID of the group `civil` to 1203**
- **Change the group ownership of the file `test.txt`**
- **Delete group `civil`**
- **Delete file `test.txt`**



About the Spoken Tutorial Project

- Watch the video available at http://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- It summarises the Spoken Tutorial project
- If you do not have good bandwidth, you can download and watch it



Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- Conducts workshops using spoken tutorials
- Gives certificates to those who pass an online test
- For more details, please write to contact@spoken-tutorial.org



Forum for specific questions

- Do you have questions in **THIS Spoken Tutorial?**
- Please visit <http://forums.spoken-tutorial.org>
- Choose the minute and second where you have the question
- Explain your question briefly
- Someone from our team will answer them



Acknowledgements

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- More information on this Mission is available at:

<http://spoken-tutorial.org/NMEICT-Intro>



Thank You

Thanks for joining
<http://spoken-tutorial.org>

